Lesson 4-2: Analyze Linear Associations

1. Sample answer: Look first at how the x-values and y-values are associated, either linear or nonlinear, positive or negative. If linear, then look at the strength of the association by drawing a trend line.

2. Sample answer: If most of the points are close to the trend line, the association is strong. If many are far from the trend line, the association is weak.

3. Sample answer: Nonlinear associations show a pattern but the points do not cluster around a trend line. The points may form a curve or a circle.

4. Weak positive association

5. Nonlinear association

6. Line m

7. Positive

8. Positive linear association

9. Strong negative linear association

10. Nonlinear association

11. a. Sample answer: The number of students and the number of teachers in a school.

    b. Sample answer: The time spent driving and the distance to the destination.

12. Nonlinear association

13. A, D

14. C, E